U.S. Department of Commerce
National Institute of Standards and Technology
Gaithersburg, MD 20899-2350

Certificate Number: 99-180

National Type Evaluation Program

Certificate of Conformance

for Weighing and Measuring Devices

For:

Card Reader for
Retail Motor Fuel Dispenser
Model: CEC XXXXXXX

Submitted by:

Marconi Commerce Systems Inc.
(formerly Gilbarco Inc.)
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Standard Features and Options

Receipt printer
Card reader
Visual prompting display
Preset money

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: December 1, 1999

Gilbert M. Ugiansky, Ph.D.
Chief, Office of Weights and Measures
Issue Date: March 23, 2000

Marconi Commerce Systems Inc.
Card Reader for Retail Motor Fuel Dispenser
Model: CEC XXXXXXX

Application: For use in conjunction with compatible retail motor-fuel dispensers which have an NTEP Certificate of Conformance and which are interfaced to Marconi Commerce Systems Inc. T-15 (G-Site) system (Marconi Commerce Systems Certificate of Conformance Number 99-161 and Gilbarco Inc. Certificate of Conformance Number 87-002A1).

Identification: The identification badge for the Marconi Commerce Systems Inc. Model CECXXXXXXX is located on the side of the external CRIND housing.

Model Designation: The Marconi Commerce Systems Inc. model designation consists of a variety of entries based upon the configuration of the unit. The device is identified by the model designation CECXXXXXXX where the XXXXXXX represents various device parameters as shown below. This device is known by the generic name of External CRIND.

CEC X X X X X X X	
1 Basic Model	CEC
2 Type of Installation	0 - Field 1 - GSO Factory 2 - Affiliate Factory
3 Source Voltage	0 - 115VAC 50/60 HZ 1 - 230VAC 50/60 HZ
4 User Access	1 - Single Sided 2 - Dual Sided
5 Mounting & Electric Interface	0 - Tokheim TSC/A Series 1 - Marconi Commerce Systems Inc. Dimension Series 2 - Wayne 395 Series 3 - Euroline Series 4 - Tokheim TSC/A Series Pump & Generic Crind Interface 5 - Wayne 395 Series Pump & Generic Crind Interface 6 - Pedestal or Wallmount Generic Crind 7 - Pedestal or Wallmount Crind 8 - Pedestal or Wallmount - Competive Pump Interface 9 - Pedestal Mount - GCAT4-Mount
6 Card Reader Types/ Hardware Set	0 - Track 1&2 Insert/STD Z180 - Horizontal 1 - Track 1&2 Insert/Euro -Horizontal 2 - Track 1&2 French Smart Card Motorized/Euro 3 - Track 1&2 Insert/STD Z180 - Vertical 4 - Track 1&2 Insert/STD Z180 - Vertical
7 Reserved (Future Use)	0 - Standard
8 Reserved (Future Use)	0 - Standard

Marconi Commerce Systems Inc.
Card Reader for Retail Motor Fuel Dispenser
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Operation: The External CRIND has two levels of operation which enables the customer to pay at the dispenser or at the station cashier. Payment can be made in cash or by credit or debit card. The keypad is marked with selections for method of payment and a visual LED display guides the customer through the transaction. Improper key sequences or operation or malfunction of the device results in error messages to the customer and/or cancellation of the transaction. The device owner can choose to have the system configured to present these error messages visually and/or audibly.

A printed receipt is available at the dispenser for each transaction. An optional second receipt can be obtained from the cashier at the console.

The device can be programmed to require the entry of personal identification numbers (PIN) for the use of a credit or debit card if this option is requested by the card company.

Test Conditions: This Certificate is issued based on information provided by the manufacturer to change the name of 1the company from the previous name, Gilbarco Inc., and to transfer ownership of the device covered under Certificate of Conformance Number 93-035A1 to Marconi Commerce Systems Inc. All institutional knowledge of the previous owner has been transferred to the new company. Test conditions for Certificate of Conformance Number 93-035A1 and its preceding Certificates are listed below for reference.

Certificate of Conformance Number 93-035A1: This Certificate superseded Certificate of Conformance Number 93-035 and was issued to include additional mode numbers in code position 5 and 6. These additional numbers reflect additional mounting configurations which are not metrologically significant to the device; consequently, this Certificate was issued without additional testing based on information provided by the manufacturer.

Certificate of Conformance Number 93-035: This Certificate was issued to include the external CRIND. The external CRIND is a repackaged version of the integrated CRIND and may be used to add CRIND functions to dispensers that do not have this capability. The external CRIND uses components that have been previously evaluated under the following Certificates of Conformance Numbers 89-066 (CRIND), 90-115A3 (ADVANTAGE), and 87-077A2 MPD- C, 2, 3. No additional testing was required to issue this Certificate.

Certificate of Conformance Number 89-066: The emphasis of the evaluation was on the design and operation of the device. The device was examined using electronically simulated product flow to evaluate the basic functions of the system. The device was installed in a field location and tested initially and then again approximately 30 days later.

The results of the evaluations indicate the device complies with applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1999 Edition

Tested By: T. G. Butcher (NIST); R. D. Murdock (NC)

Information Reviewed By: R. W. Wotthlie 93-935; J. S. Williams 93-035A1; L. Sebring (NIST) and G. Newrock (NIST) 99-180